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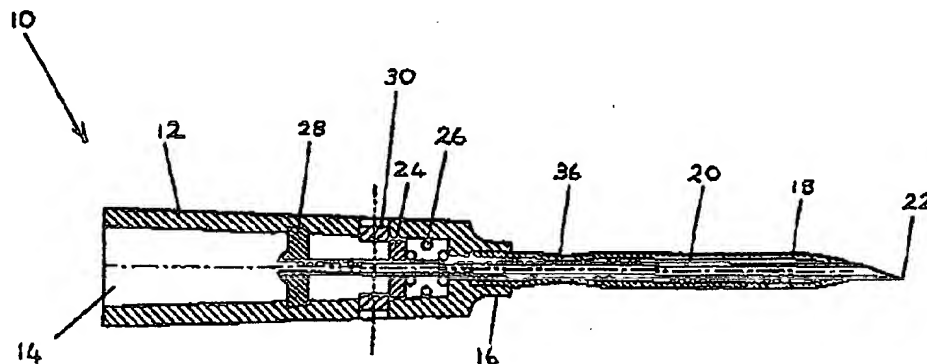
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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: <b>PCT/AU99/00827</b></p> <p>(22) International Filing Date: <b>29 September 1999 (29.09.99)</b></p> <p>(30) Priority Data:</p> <table border="0"> <tr> <td>PP 6347</td> <td>6 October 1998 (06.10.98)</td> <td>AU</td> </tr> <tr> <td>PP 6477</td> <td>14 October 1998 (14.10.98)</td> <td>AU</td> </tr> <tr> <td>PP 8318</td> <td>22 January 1999 (22.01.99)</td> <td>AU</td> </tr> </table> <p>(71)(72) Applicants and Inventors: <b>PRESTIDGE, Dean, Brian</b> [AU/AU]; 7 Key West Drive, Mullaloo, W.A. 6027 (AU). <b>WHISSON, Maxwell, Edmund</b> [AU/AU]; 3/70 Subiaco Road, Subiaco, W.A. 6008 (AU).</p> <p>(74) Agent: <b>LORD, Kelvin, Ernest; Lord &amp; Company, 4 Douro Place, West Perth, W.A. 6005 (AU).</b></p>	PP 6347	6 October 1998 (06.10.98)	AU	PP 6477	14 October 1998 (14.10.98)	AU	PP 8318	22 January 1999 (22.01.99)	AU	<p>(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p><b>Published</b> <i>With international search report.</i></p>
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(54) Title: A NEEDLE APPARATUS



## (57) Abstract

A needle apparatus (10) has a thin walled catheter (18) enclosing a tubular needle (20) having a sharp point (22), the catheter (18) and the needle (20) being relatively moveable longitudinally a short distance, from a first position where the needle (20) projects from the catheter (18) and to a second position at which the sharp point (22) is located within the catheter (18). The needle (20) remains in the fluid pathway of the needle apparatus (10) at all times. The needle apparatus (10) is arranged to pierce tissue when the catheter (18) and the needle (20) are in the first position.

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